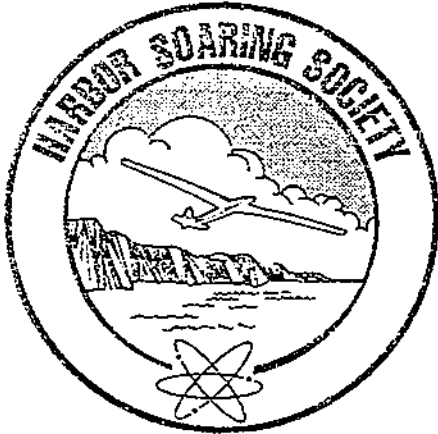


Harbor Soaring Society
P.O. Box 1673
Costa Mesa, CA 92626



FIRST CLASS MAIL

WILL CONRAD
9359 SHRIKE AVE
FOUNTAIN VALLEY CA 92708

PLANE RAP

The News Letter of the Harbor Soaring Society

"The Oldest Chartered Soaring Club In the AMA"
Charter # 128

March 1997

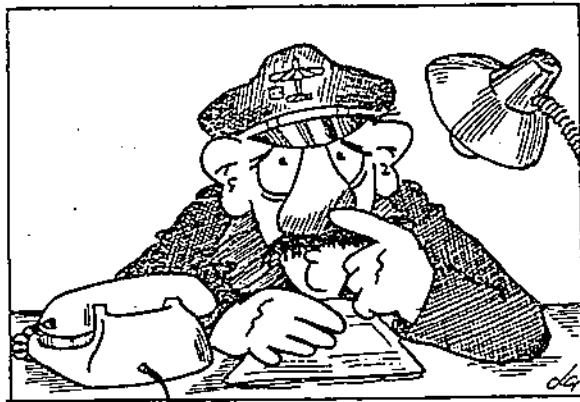
Wed, Mar 5th HSS General Meeting at Hobby Shack, Fountain Valley.
Featured presentation: fabrication of composite fuselages by
Lyndon Johansen

Sunday, Mar 9th HSS Monthly Thermal Duration and Speed 400

Saturday, Mar 15th HSS Electric Fun Fly, Brian Buass CD

General Directions

By Lars Tuohino



Landing: "A Controlled, Midair Collision with a Planet"

It's your first big contest and there is a slight breeze blowing and you're setting up to land and for some reason you *very* land short...earning, as we at HSS like to say, the "John Muir Award". What went wrong? You know the wind breeze had something to do with it but how do you correct the mistake? Basically there are three things to remember to correct this "landing with wind" situation:

1. Fly a little faster. As much as 1/2 half the wind speed added to your normal flight speed. Note on your downwind the plane *appears* to be going very fast because of the tailwind and the wrong tendency is to pull back on the stick, slowing the plane down relative to it's air mass. Slow airspeed puts you near stall and diminishes your ability to control the plane. The frequent result is perhaps an unintentional turn/stall *away* from the base/final. At that point you are dead meat!
 2. Keep the pattern a little shorter. Start your base turn a hair sooner so that you don't get blown back too far in the pattern. Remember the speed of that tailwind will be *reversed* when you turn into the wind on final. It will take longer and more altitude than you think to make it back on final to the landing tape.
 3. Don't try to "stretch" the glide on final by pulling back on the stick. That breeze is blowing say 10 MPH, your flying at maybe 10 MPH, then you will in fact "hover in place". Hesitation here is a common mistake. It's better to *push the nose down* as soon as you sense you are too far downwind, gain the speed, and then "float" low along the ground taking advantage of the "wind gradient" and the "ground effect".
- "Wind gradient", "ground effect", "downwind-base-final"? If you don't understand these terms then they are concepts to learn. I'm sure you can find an HSS expert at the field to help you out with the explanations. That's an advantage of why we are a club!

Science Problem

The old soaring instructor at the Wasserkuppe claimed that Hans Werner Grosse's flight from Hamburg to France (world distance straight out record which still stands, which was flown in the early 1970s in an ASW-12) was "easy" because it was downwind, the performance of the glider was excellent and "of course", *the earth's surface is curved!*

So you HSS members-with-sliderules handy, given this concept, **what L/D would be required so that the glider could follow the curvature of the earth and never land?**

(Answer is hopefully at this month's HSS General meeting...be there!)

"HSS Is Orange County R/C Soaring"

THE SOARING UNION OF LOS ANGELES

PRESIDENT
Kevin Andersen
(310) 375-3658



CONTEST DIRECTOR
Dan Capps
(310) 377-6372

Invites You To Attend The March 23, 1997
SC2 CONTEST

Sign-up 8:00 A.M.
Pilots Meeting: 9:00A.M.
First Flight: 9:15A.M.

10 TROPHIES
1 Thru 3 - Masters
1 Thru 3 - Expert
1 Thru 3 - Sportsman
1 - Senior (60+)
Choice of Class

Entry Fee: \$8.00 *FOR OPEN AND SCALE*
PILOTS MAY ENTER BOTH

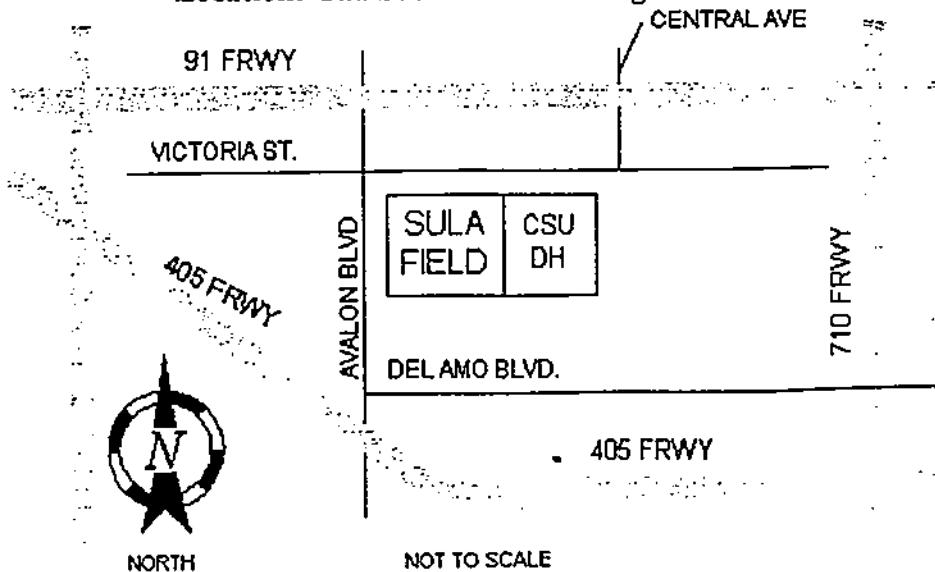
"Three Rounds of Precision Duration"

MAN-ON-MAN { Round 1: 6 Minute Flight W/Landing (Scored 950/50)
Round 2: 10 Minute Flight W/Landing (Scored 950/50)
Round 3: 10 Minute Flight W/Landing (Scored 950/50)
26 Minutes Total Flight Time

*(SC)² WILL
HAVE TROPHIES
FOR SCALE*

- Flight Times Scored Linear *FOR ROUND #1*
- All Landings Scored 1/2 Actual
- Carrier Type Landings
- Landing Area is Mowed Grass (50' x 300' Area)
- 12 Volt Winches With Retrievers
- 800 Foot Launch Lines
- All AMA and SC2 Rules Apply
- Portable Restroom on Site

Location: Cal. State Univ.-Dominguez Hills



HARBOR SOARING SOCIETY MEMBERSHIP LIST FOR FEBRUARY 1997

NAME	ADDRESS	PHONE	DOB	MEMBER	ADDRESS	PHONE	DOB	MEMBER	ADDRESS	PHONE	DOB	MEMBER
CHRISTOFF	ADAMCZIK	465 SERRA DR	92625	714	700-5038	301 ENERO	92680	714	NEWPORT BEACH	92680	714	750-1564
STEVE	ADDIS	8024 DARBYP PL	91335	016	776-8377	RENAUD	22412 RIPPILING BROOK	714	LAKE FORREST	92630	714	727-1471
GEORGE	AZVEDO	14811 BIRCHWOOD PL	92660	714	823-7819	RESTER	12032 REDHILL	714	TUSTIN	92780	714	832-0257
STEVE	BAKER	3014 W. MARK STREET	92704-1532	714	541-2125	RITSCHKE	1548 ORANGE AVE	714	COSTA MESA	92827	714	548-1806
DALE H	BLACK	2018 LEMNOS DRIVE	92826	714	540-6147	RODRIGUEZ	21051 NEWLAND #193	714	HUNTINGTON BEACH	92646	714	538-6543
BILL C	BRADFORD	21242 MAZATLAN	92692	714	581-6538	ROLDAN	1230 JONAH DR.	000	CORONA	01720	000	371-0500
DAVID	BRADY	1965 Vista Caball	92660	714	640-7202	SAVILLE	2898 CORVO PLACE	714	COSTA MESA	92626	714	549-7976
DENNIS	BRANDT	3655 W GREENTREE CR. # C	92804	714	562-4210	SCHUPAK	381 Costa Mesa ST	714	COSTA MESA	92627	714	548-4647
RICK	BRIGES	5937 MAPLES PLAZA	92803	310	483-4347	SUIFF	0044 LIGION PLACC #0	714	MIDWAY CITY	92653	714	693-2337
BRIAN	BUJAS	21038 STONEY GLEN	92704	714	855-2740	STUBB	3032 STEARNS DR	714	ORANGE	92869	714	538-5513
NICK	BUALOICH	19368 SIERRA BELO RD.	92715	714	854-3989	THOMAS	1408 N. LA BONITA	714	SANTA ANA	92703	714	638-0705
CHRIS	CABAJ	17291 LEE CIRCLE	92047	714	848-2843	THOMAS **	1435 N. LA BONITA	714	SANTA ANA	92703	714	638-0705
GEORGE	CLARKE	2929 VIA BLANCO	92873	714	408-2754	THORNTON	391 VIOLET LANE	714	ORANGE	92869	714	532-1258
BEN	CLERX	50 OCEAN VISTA	92660	714	644-7034	TUOHINO	2343 WESTMINSTER	714	COSTA MESA	92627	714	548-7568
WILL	CONRAD	8569 SHRIKE AVE	92706	714	546-6649	VAZENILEK	250 De Nove DR	310	LOS ANGELES	90024	310	794-3849
ALVIN	CRON	2609 GLENARBOR	92704	714	638-4637	VINCENT	6822 SAN HUGO WAY	714	BUENA PARK	90620	714	648-7060
HOWARD	DOERING	9682 BLANCHE AVE	92641	714	846-8637	WAHLSTEDT	2325 HEATHER LANE	714	NEWPORT BEACH	92660	714	648-7060
JOHN	DONELSON	8022 KERDRICK CIR	92845	714	892-8685	WALKEH	1542 SABBICAS CIR.	714	HUNTINGTON BEACH	92647	714	842-3930
WILLIAM E	DUNCAN	5462 KERULEAN AVE.	92875	714	364-4340	WALLER	21831 EVENINGSIDE LANE	714	LAKE FOREST	92630	714	951-2651
DENNIS	DUNCAN	29276 SONOMA WAY	92804	714	552-1812	WILKINS	9642 BICKLEY DR.	714	HUNTINGTON BEACH	92646	714	583-8974
DOH	EDBERG	4822 ROCHELLE AVE	92565	569	245-2521	WRIGHT	2030 N. WILLIAMS ST.	714	SANTA ANA	92705-7840	714	543-5635
LARRY L	ENGER	22833 WINDTREE AVE	92848	714	536-0981	YOUNG	6592 BELGRAVE AVE	714	GARDEN GROVE	92845-1802	714	892-3473
DANIEL W.	FINK	312 10TH ST. #G	92807	714	283-2935	ZINK	5181 MANOR VIEW DR	714	YORBA LINDA	92686	714	970-1823
MATT	FORQUER	6290 E. QUARTZ LANE	92826	714	751-4112							
ROB	GREENE	3108 SUMATRA PL.	92565	714	637-2704							
HERMAN	HALL	2023 N. GREENGROVE ST	92688	714	598-9136							
PHIL	HARRIS	7 VIA ULMARIA	92692	714	586-2176							
FRED	HARTMANN	21232 MAZATLAN	92707	714	545-4722							
KARL V	HAWLEY	3624 B. SOUTH MAIN ST	92630	714	871-9789							
ED	HAWLEY	4382 MONROE CIRCLE	92835	714	896-6183							
STEVE	HENDRY	2481 HARTFORD AVE	99207	509	928-1550							
RANDAL R.	HOLZAPPLE	1425 E. HOUSTON	92627	714	645-6291							
LYNDON	JOHANSEN **	654 W WILSON ST.	92627	714	645-6291							
JOEL	JOHANSEN	654 W WILSON ST.	92627	714	645-6291							
DEL	KAHAN	P. O. BOX 1501	92663	714	546-0382							
CHRIS	KENYON	537 NEWPORT CNTR DR	92660	714	546-0382							
LES	KENYON **	537 NEWPORT CNTR. DR	92660	714	717-5923							
NORMAN P.	KUTCH **	502 STURGEON DR.	92626-3113	714	717-5922							
MARYE L.	KUTCH	502 STURGEON DR	92626-3113	714	546-0382							
ROGER	LACKEY	2111 ORANGE AVE	92646	714	548-8430							
DIETER	LAMPRECHT	21661 BROOKHURST ST #41	92847	714	847-6180							
DONALD	LAWRENCE	18112 Windemell Lane	92648	714	847-4854							
ALEX	LEHRER	19131 DELAWARE ST	92687	714	642-6830							
RODGER	MAC GREGOR	645 Via Lido Sound	92646	714	938-7325							
ANTHONY	MARTIN	20261 SEASHELL CR.	92626	714	432-8613							
ALAN	MC CARTHY	3100 SUMATRA PL.	92831	714	916-8501							
RICK	MEREDITH	2966 HADDONFIELD	92837	714	738-4360							
DAVID P	NEMECEK	P. O. BOX 2052	92663	714	612-1380							
DICK	PANTZAR	400 ORION WAY	92744	714	616-6437							
JIM	PARSONS	5382 CENTRAL AVE.										













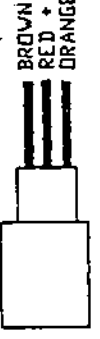



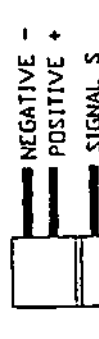

FOR SALE

I have just completed a short run of 2 meter Gnome kits, namely, 2.5, kits. Club member price is \$40.00 each, while they last. I also have a good stock on the HLG Gnome kit, namely some 40+ kits. Club member price is \$30.00 each.

You can catch me at the field, or give me a call (I have an answering machine on when not at home.) Or e-mail me at BSL140@aol.com

For the electric flyers, I will be making a short run of Electric Playboy kits sometime around the end of March, as I have a contract with AVEOX to make some electric kits for them. I will also be offering mods for the Gnome's to make them electric (\$400 for the HLG, and 7 cell for the 2 meter).

Bob Sliff (714) 893-2337 (phone or fax)

TYPE	NEUTRAL	TO SER	TO BATTERY
KRAFT 'C'	1.4MSEC		
KRAFT 'A'	1.9MSEC		
KRAFT KD PROPD 'KB'	1.4MSEC		
FUTABA 'G'	1.31MSEC		
FUTABA 'J'	1.5MSEC		
AIRTRONICS	1.5MSEC		
JR	1.5MSEC		
HITEC/RCD WORLD-FM POLKS/ARJSTO	1.5MSEC		
DEANS ACE	1.5MSEC		
		+ POSITIVE - NEGATIVE S SIGNAL X NOT USED	+ POSITIVE - NEGATIVE S SIGNAL X NOT USED

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